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PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 2269-5868US (01-0764.00/US) William M. Hiatt First Inventor THROUGH-HOLE CONDUCTORS FOR SEMICONDUCTOR Title SUBSTRATES AND METHOD AND SYSTEM FOR MAKING SAME

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))				Express Mail I	press Mail Label No. EV 348042904 US					
APPLICATION ELEMENTS				ADDR	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450					
See MPEP c	hapter 600 concerning utility pate	ent application o	7.22.	ADDRESS 70. P.O. Box 1450 Alexandria, VA 22313-1450						
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 18] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure				 7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. ☐ Computer Readable Form (CRF) b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ paper c. ☐ Statements verifying identity of above copies ACCOMPANYING APPLICATIONS PARTS 9. ☒ Assignment Papers (cover sheet & document(s)) 						
				11. 🗆	10. S 37 C.F.R.§3.73(b) Statement Power of (when there is an assignee) Attorney					
4. 🛛 D	. Drawing(s) (35 U.S.C.113) [Total Sheets 6]				Information	English Translation Document (if applicable) Information Disclosure				
5. Oath or [[Total Pages	3]	13. 🗆		ry Amendment		1		
	Newly executed (original or Copy from a prior application		3 (4))	14.		eceipt Postcard ((MPEP 503)	١		
U. [_]	(for a continuation/divisional	•			(Should be specifically itemized)					
i. 🗆	DELETION OF INVENT		,,	15. 📙	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
	Signed statement attached delenamed in the prior application,	eting inventor(s))	16. 🗌						
	1.63(d)(2) and 1.33(b).	see 37 OF K			(b)(2)(B)(i). Applicant must attach form PTO/SB/35					
6. App	olication Data Sheet. See 37	CFR 1.76		17. 🗆	or its equivalent. 17. Other:					
	17. 🗀 Oulei							↲		
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Of prior application No: / Prior application information: Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
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Name (Print/Type) Kevin K. Johanson			Registratio	n No. (Atto	mey/Agent)	38,506	$\overline{\ \ }$			
Signature Date February 23, 2004							\int			
Burden Hour	Statement: This form is estimat	ed to take 0.2	hours to com	nlete Time w	ill vant dene	nding upon the ne	eds of the individual case. Any			

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Date

801-532-1922

February 23, 2004

Attorney Docket No.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

810

TOTAL AMOUNT OF PAYMENT

SUBMITTED BY

Name (Print/Type)

Signature

Kevin K, Johanson

Application Number	To be assigned	
Filing Date	February 20, 2004	
First Named Inventor	William M. Hiatt	
Examiner Name	To be assigned	
Art Unit	To be assigned	
Attorney Docket No	2269-5868US (01-0764.00/US)	

Complete if Known

METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)					
☑ Check ☐ Credit card ☐ Money ☐ Other ☐ None				3. ADDITIONAL FEES						
Order Deposit Account:				Large Entity Small Entity						
Deposit			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Account				1051	130	2051	65	Surcharge - late filing fee or oath		
Number			1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.			
Deposit			1053	130	1053	130	Non-English specification			
Account TraskBritt			1	1812	2,520	1812	2,520	For filing a request for reexamination		
Name The Director is authorized to: (check all that apply)					920*	1804	920*	Requesting publication of SIR prior to Examiner action		
☐ Charge fee(s) indicated below ☑ Credit any overpayments ☑ Charge any additional fee(s) during the pendency of this application					1,840*	1805	1,840*			
		cept for the filing fee		1251	110	2251	55	Extension for reply within first month		
to the above-ident	ified deposit accou	CULATION		1252	420	2252	210	Extension for reply within second month		
1. BASIC F	ILING FEE			1253	950	2253	475	Extension for reply within third month		
Large Entity	Small Entity			1254	1,480	2254	740	Extension for reply within fourth month		
	ee Fee <u>Fe</u> e Code (\$)	<u>e Description</u> Fee Paid		1255	2,010	2255	1,005	Extension for reply within fifth month		
	1	lity filing fee 770		1401	330	2401	165	Notice of Appeal		
		sign filing fee	_	1402	330	2402	165	Filing a brief in support of an appeal		
		ant filing fee	_	1403	290	2403	145	Request for oral hearing		
1004 770 2	004 385 Re	issue filing fee	4	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
1005 160 2	2005 80 Pro	ovisional filling fee		1452	110	2452	55	Petition to revive – unavoidable		
SUBTOTAL (1) (\$) 770					1,330	2453	665	Petition to revive - unintentional		
	<u> </u>	<u> </u>		1501	1,330	2501	665	Utility issue fee (or reissue)		
2. EXTRA CLA		JTILITY AND REISSUE		1502	480	2502	240	Design issue fee		
		xtra Fee from Fee laims below Paid		1503	640	2503	320	Plant issue fee		
Total Claims 20			\neg	1460	130	1460	130	Petitions to the Commissioner		
Independent			╡	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		
Claims 3	-3 ** = 0	X 86 = 0	_	1806	180	1806	180	Submission of Information Disclosure Stmt		
Multiple Dependent Large Entity Small Entity				8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description		1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))		
1202 18	2202 9	Claims in excess of 20		1810	770	2810	385	For each additional invention to be		
1201 86	2201 43	Independent claims in excess of	3					examined (37 CFR § 1.129(b))		
1203 290	2203 145	Multiple dependent claim, if not p	aid	1801	770	2801	385	Request for Continued Examination (RCE)		
1204 86	2204 43	** Reissue independent claims or original patent	er	1802	900	1802	900	Request for expedited examination		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent			of a design application							
SUBTOTAL (2) (\$) 0				Other fee (specify)						
				*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40						
**or number previously paid, if greater; For Reissues, see above				L						

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Registration No. (Attorney/Agent)

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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